



Patents

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Fred S. Cannon et al.

Appln. No.: **10/085,469**

Group Art Unit: 1724

Filed: **February 28, 2002**

Examiner: Cintins Ivars

Title: **METHOD OF HEAT TREATING
ACTIVATED CARBON TO ENHANCE
ADSORPTION OF TASTE AND ODOR
COMPOUNDS AND TOTAL ORGANIC
CARBONS FROM WATER**

Atty Docket No. 1665-1-1
Customer ID 25207

TRANSMITTAL LETTER

BOX IDS

Honorable Commissioner for Patents
Washington, D.C. 20231

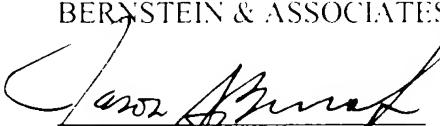
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Enclosed for filing in the above case are the following documents:

- Form PTO/SB/08A
- Supplemental Information Disclosure Statement
- Copy of each cited reference
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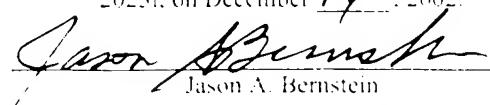
Respectfully submitted,
BERNSTEIN & ASSOCIATES, P.C.


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Jason A. Bernstein



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Atty Docket No. 1665-1-14
Customer ID 25207

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

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The citation of information on the attached Form PTO/SB 08A, made pursuant to 37 CFR 1.56. A copy of each cited item is enclosed.

The citation of this information does not constitute either an admission of priority or a waiver of any right applicant may have under applicable statutes, Rules of Practice in patent cases, or otherwise.

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Respectfully submitted,
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PTO/SB/08A (10-01)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 4

Complete if Known

Application Number	10/085,469
Filing Date	February 28, 2002
First Named Inventor	Fred S. Cannon et al.
Art Unit	1724
Examiner Name	Cintins Ivars
Attorney Docket Number	1665-1-1

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FOREIGN PATENT DOCUMENTS

Examiner's Cite No.		Foreign Patent Document No. Number	Publication Date MM DD YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	Text

Examiner Signature _____ Date Considered _____

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Sheet **2** of **4**

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Application Number	10/085,469
Filing Date	February 28, 2002
First Named Inventor	Fred S. Cannon et al.
Group Art Unit	1724
Examiner Name	Cintins Ivars
Attorney Docket Number	1665-1-1

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
\ D	D	Herzing et al., "Activated Carbon Adsorption of the Odorous Compounds 2-Methylisoborneol and Geosmin," Journal AWWA, April 1977, pp. 223-228.	
\ E	E	Lalezary-Craig et al., "Optimizing the Removal of Geosmin and 2-Methylisoborneol by Powdered Activated Carbon," Research and Technology.	
\ F	F	Chen et al., "Evaluation of Granular Activated Carbons for Removal of Methylisoborneol to Below Odor Threshold Concentration in Drinking Water," Wat. Res. Vol. 31, No. 5, pp. 1155-1161, 1997, Elsevier Science Ltd.	
\ G	G	Ellis et al., "Removal of Geosmin and Methylisoborneol from Drinking Water by Adsorption on Ultrastable Zeolite-Y," Wat. Res., Vol. 27, No. 4, pp. 535-539, 1993, Pergamon Press Ltd.	
\ H	H	Terauchi et al., "Studies on a Biological Filter for Musty Odor Removal in Drinking Water Treatment Processes," Wat. Sci. Tech., Vol. 31, No. 11, pp. 229-235, 1995, IAWQ.	
\ I	I	Lalezary et al., "Evaluating Activated Carbons for Removing Low Concentrations of Taste- and Odor-Producing Organics," Research and Technology	
\ J	J	Coughlin et al., "Role of Surface Acidity in the Adsorption of Organic Pollutants on the Surface of Carbon," Environmental Science and Technology, Jan. 1958, pp. 291-297.	
\ K	K	Randtke et al., "Evaluating GAC Adsorptive Capacity." Journal AWWA, August 1983, pp. 406-413.	

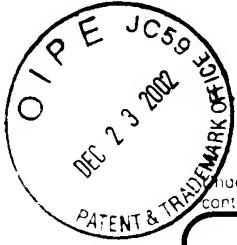
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 3 of 4

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Application Number	10/085,469
Filing Date	February 28, 2002
First Named Inventor	Fred S. Cannon et al.
Group Art Unit	1724
Examiner Name	Cintins Ivars
Attorney Docket Number	1665-1-1

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number, publisher, city and/or country where published	T-
L		McCreary et al., "Granular Activated Carbon in Water Treatment," Journal AWWA, August 1977, pp. 437-444.	
M		Levi et al., "Offensive Tastes and Odors Occurring After Chlorine Addition in Water Treatment Processes," Wat. Sci. Tech., Vol. 20, No. 8/9, pp. 269-274, 1998, IAWPRC.	
N		Chudyk et al., "Activated Carbon Versus Resin Adsorption of 2-Methylisoborneol and Chloroform," Journal AWWA, Sept. 1979, pp. 529-538.	
O		Gillogly et al., "Kinetic and Equilibrium Studies of 14C-MIB Adsorption on PAC in Natural Water," University of Illinois at Urbana-Champaign, Dept. of Civil Engineering, pp. 627-645.	
P		Vik et al., "Pilot Scale Studies of Geosmin and 2-Methylisoborneol Removal," Wat. Sci. Tech. Vol. 20, No. 8/9, pp. 229-236, 1988, IAWPRC.	
Q		Huang et al., "Adsorption Kinetics of MIB and Geosmin," April 1996, pp. 116-128.	
R		Ando et al., "Removal of Musty-Odorous Compounds in Water and Retained in Algal Cells Through Water Purification Process," Wat. Sci. Tech., Vol. 25, No. 2, pp. 299-306, 1992, IAWPRC.	
S		McGuire et al., "Overview of Technology for Controlling Off-Flavors in Drinking Water," Wat. Sci. Tech., Vol. 20, No. 8/9, pp. 215-228, 1998 IAWPRC.	

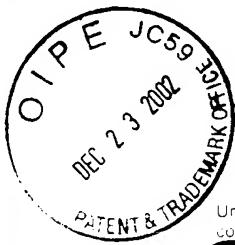
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 4 of 4

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IT		Burlingame et al., "A Case Study of Geosmin in Philadelphia's Water."	

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